Ontario

Ministry of Natural Resources

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

Ministry of Northern Affairs

Hon. Leo Bernier
Minister

David Hobbs
Deputy Minister

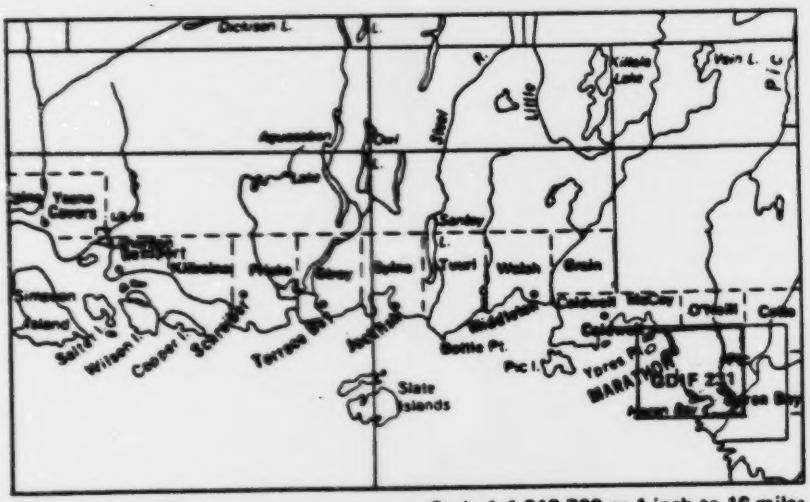
ONTARIO GEOLOGICAL SURVEY

GEOLOGICAL DATA INVENTORY FOLIO
GDIF 231

PIC TOWNSHIP AREA (WESTERN PART)

DISTRICT OF THUNDER BAY

Compiled by the Staff of
the Resident Geologist's Office
Thunder Bay



LOCATION MAP

Scale 1:1 013 760 or 1 inch to 16 miles

86-1431/

NTS Number 42 D 9/NW

Mining Claim Map Number Pic Township (West Part) G-630

This project was funded by the Ministry of Northern Affairs. (MNA)

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey
1985: Pic Township Area (Western Part), District of Thunder Bay; Ontario Geological Survey, Geological Data Inventory Folio 231, compiled by the staff of the Resident Geologist's Office, Thunder Bay, 28p. and 2 maps.

Original Compilation by: T. Twomey

Date	Page Revised	Revised by

Date	Page Revised	Revised by

PIC TOWNSHIP AREA (WESTERN PART)

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ACCOMPANYING MAPS

Property Location Map - 1

Exploration Data Map - 1

Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
			LENGTH		
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	**20.116 8**	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
			AREA		
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
			VOLUME		
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
			CAPACITY		
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
			MASS		
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	**28.349 523**	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
			CONCENTRATION		
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	**34.285 714 2**	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	**1.714 285 7**	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	YES	T. NOV./84
2	Assessment Files Research Office, Toronto	YES	T. NOV./84
3	ODM General Index; 7 volumes	YES	T. NOV./84
4	Catalogue of Airborne Geophysical Surveys (ODM)	NO	T. NOV./84
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	YES	T. NOV./84
6	ODM Industrial Mineral Reports	NO	T. NOV./84
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	NO	T. NOV./84
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	NO	T. NOV./84
9	Newspaper Clippings File	YES	T. NOV./84
10	GSC Index to Publications	YES	T. NOV./84
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	YES	T. NOV./84
12	OGS Index Maps	YES	T. NOV./84
13	Source Mineral Deposit Records (O.G.S.)		
14	Author - Subject Articles File	YES	T. NOV./84
15	Miscellaneous Papers: ODM & OGS	YES	T. NOV./84
16	ODM Geological Circulars: OGS Study Series	NO	T. NOV./84
17	ODM Preliminary Reports: ODM Bulletins	YES	T. NOV./84
18	ODM – OGS Open File Reports	YES	T. NOV./84
19	OGS Northern Ontario Engineering Geology Terrain Studies	YES	T. NOV./84
20	OGS Aggregate Resources Inventory Papers	NO	T. NOV./84
21	OGS Mineral Potential Maps	YES	T. NOV./84

METALS AND MINERALS REFERENCES LIST

△ anh. . . . . .Anhydrite
△ ank. . . . . .Ankerite
△ anna . . . . . Annabergite
△ ap. . . . . .Apatite
△ arg . . . . . Argentite
△ As . . . . . .Arsenic
△ asp . . . . . .Arsenopyrite
△ asb . . . . . .Asbestos
▲ ba. . . . . .Barite
△ be. . . . . .Beryl
△ Bi. . . . . .Bismuth
△ bn . . . . . .Bornite
△ bran . . . . . .Brannerite
△ bruc . . . . . .Brucite
△ Cd . . . . . Cadmium
△ calc. . . . . .Calcite
△ carb . . . . . .Carbonate
△ cel . . . . . .Celestite
△ cc. . . . . .Chalcocite
▲ cp. . . . . .Chalcopyrite
△ ch. . . . . .Chert
△ clay . . . . . .Clay
△ Co . . . . . Cobalt
△ cob. . . . . Cobaltite
△ cb. . . . . .Columbite
▲ Cu . . . . . .Copper
△ cor . . . . . Corundum
△ dol . . . . . Dolomite
△ ep. . . . . Epidote
△ ery . . . . . Erythrite
△ fel . . . . . .Feldspar
△ fl . . . . . .Fluorite (flurospar)
△ fu. . . . . .Fuchsite
▲ gn. . . . . .Galena
△ gt. . . . . .Garnet
△ goe . . . . . .Goethite
▲ Au . . . . . Gold
△ gf. . . . . .Graphite
△ gl . . . . . Gravel
△ gyp. . . . . .Gypsum
△ hem . . . . . Hematite
△ il . . . . . .Ilmenite
△ Fe . . . . . .Iron
△ IF. . . . . Iron Formation
△ jas . . . . . Jasper
△ kaol . . . . . .Kaolinite (kaolin)
△ ky . . . . . Kyanite
△ Pb . . . . . Lead
△ lim . . . . . Limonite
△ Li. . . . . Lithium
△ mgst . . . . . .Magnesite
△ mag . . . . . .Magnetite
△ mc . . . . . Malachite
△ Mn . . . . . Manganese
△ mb . . . . . Marble
△ mar. . . . . Marcasite
△ ma . . . . . .Marl
△ mi . . . . . Mica
△ ml . . . . . .Millerite
▲ mo . . . . . Molybdenite
▲ Mo . . . . . .Molybdenum
△ mon . . . . . Monazite
△ ne. . . . . Nephelite (nepheline)
△ nc. . . . . .Niccolite
▲ Ni. . . . . Nickel
△ Nb . . . . . .Niobium
△ Pd . . . . . .Palladium
△ peat . . . . . .Peat
△ pent . . . . . .Pentlandite
△ Pt. . . . . .Platinum
△ py . . . . . .Pyrite
△ pyl . . . . . Pyrochlore
△ pyrl . . . . . .Pyrolusite
△ po . . . . . .Pyrrhotite
△ q . . . . . Quartz
△ qcv . . . . .Quartz carbonate vein
△ ra. . . . . .Radioactive minerals
△ RE . . . . . .Rare Earths
△ sd. . . . . Sand
△ sgl . . . . . Sand and gravel
△ ss . . . . . .Sandstone
△ scap . . . . . Scapolite
△ shee . . . . . .Scheelite
△ serp . . . . . Serpentine
△ sh. . . . . Shale
△ sid . . . . . Siderite
△ si . . . . . Silica
▲ Ag . . . . . .Silver
△ sl . . . . . Slate
△ sm . . . . . .Smaltite
△ sod. . . . . Sodalite
△ spec . . . . . Specularite
△ sp. . . . . .Sphalerite
△ spd. . . . . .Spodumene
△ staur . . . . . .Staurolite
△ stib. . . . . Stibnite
△ st . . . . . .Stone
△ talc. . . . . .Talc
△ Te . . . . . Tellurium
△ td. . . . . Tetrahedrite
△ th. . . . . .Thorite
△ Th . . . . . .Thorium
△ thuc . . . . . Thucholite
△ ti . . . . . Titanite
△ Ti. . . . . Titanium
△ tour . . . . . .Tourmaline
△ trap . . . . . .Trap rock
△ W. . . . . Tungsten
△ uran . . . . . Uraninite
△ U . . . . . .Uranium
△ verm . . . . . .Vermiculite
△ Y . . . . . Yttrium
△ Zn . . . . . .Zinc
△ zr. . . . . Zircon
▲g.mi. . . . . .Green Mica

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Heron Bay Cove Mine (Peekongay Occurrence)	Au, Ag			Thomson (1931)
B	Kadrey Energy Corporation	ba, g.mi			Resident Geologist's Assessment Files, Thunder Bay
C	Dunlop Occurrence	Cu, Ni, Mo			OGS Report 218, 1982

GDIF FORM NO. 1

PIC TOWNSHIP AREA (WESTERN PART) 4

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY	DIP NEEDLE		
1	Anaconda American Brass				65															
2	Conwest Exploration Co.				64															
3	Cosgrove, J. T. F.N.: 63.831																	57		
4	Dalton, A. (Lytton Minerals) F.N.: 2.6166											83	83							
5	Esso Resources Canada F.N.: 2.5814, 2.5815, 2.5816								83	83										
6	Glitter Gold Mines Limited F.N.: 2.6179, 2.6940		83						83	83										
7	Golden Range Resources Ltd. F.N.: 2.6327											83			83					
8	Golden Range Resources Ltd. F.N.: 2.6139											83	83							
9	Great Basin Metal Mines Ltd. F.N.: 63.1743	65	65									65	65							

GDIF FORM NO. 2

PIC TOWNSHIP AREA (WESTERN PART)

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
10	Ingamar Exploration Ltd. (Newmont Exploration) F.N.: 2.5996											83			83					
11	Kadrey Energy Corporation F.N.: 2.6808				83										83		83			
12	Kasner, R. (Shoila Resources) F.N.: 2.6339								83	83										
13	Kinasco Mining & Exploration				56			56												
14	Lytton Minerals Limited F.N.: 2.6231	83	83	83	83							83	83							
15	Lytton Minerals Limited F.N.: 2.6165	83										83	83							
16	Lytton Minerals Limited F.N.: 2.6168	83										83	83							
17	Mentor Exploration F.N.: 63.713				56							56					56			
18	Michano, J. (Esso Minerals) F.N.: 2.5813								83	83										

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
	COMPANY/AUTHOR (file number)																			
19	Mills, K. (Royce Resources) F.N.: 2.5938											83	83							
20	National Trust Co. Ltd. (Teck Corporation) F.N.: 2.5835, 2.7220											83	84							
21	Norgold Mines Limited F.N.: 63.685, 63.730				56											56	56			
22	Nuttall, C. (Lytton Minerals) F.N.: 2.6167	83										83	83							
23	539004 Ontario Limited (Recovery Resources Ltd.) F.N.: 2.6182								83	83										
24	Pezim, M. (Empire Resources) F.N.: 2.6948, 2.6123	83	83			83			83	83										
25	Pezim, M. (Kadrey Energy Corporation) F.N.: 2.6124, 2.6998	84	84		84	84			83	83										

GDIF FORM NO. 2

PIC TOWNSHIP AREA (WESTERN PART)

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
COMPANY/AUTHOR (file number)																				
26	Pezim, M. (McKenzie Energy Corporation) F.N.: 2.5890, 2.6818	83	83			83						83	83		83		83			
27	Pezim, M. (Grant Exploration Ltd.) F.N.: 2.6185, 2.6949	84	84			84				83	83									
28	Pezim, M. (Cal Dynamics Energy Corp.) F.N.: 2.6125, 2.6941, 2.6814	83	83			83				83	83				83		83			
29	Pezim, M. (Pacific Rim Energy Corp.) F.N.: 2.6212									83	83									
30	Provincial Mining & Development Company F.N.: 63.1819	65						65 66				65	65							
31	Rockwin Mines Limited F.N.: 63.710												56				56			
32	Smith, R.				83															

GDIF FORM NO. 2

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE THUNDER BAY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
33	Stenlund, V. F.N.: 2.5742				79 80 81 82 83	83														
34	Tanglewood Consolidated Resources F.N.: 2.7117								83	83										
35	Tara Hills Gold Resources F.N.: 2.6181								83	83										
36	Wildcat Petroleum Limited F.N.: 2.6996, 2.6130, 2.6119	83	83			83			83	83		83	83?							
37	Wilkinson, D.			73 75	78															
38	Zulapa Mining Corporation F.N.: 63.711	56			56							56					56			
39	547468 Ontario Limited (Shiningtree Gold Resources) F.N.: 2.6653								83	83										

GDIF FORM NO. 2

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
1	Anaconda American Brass	14	Feb./65	120°	-47°	4	364	mg, po, cpy	
2	" " "	18	"	000°	-90°	6	360	mg	
3	" " "	39	June/65	120°	-45°	9	893		
4	" " "	40	"	120°	-45°	4	498	mg, py, po	
5	" " "	44	"	120°	-45°	-	548	po	
6 a	" " "	45	"	120°	-45°	4	296	mg, po	
6 b	" " "	48	"	120°	-80°	4	493		
7	" " "	50	"	000°	-90°	55	726	py, mg	
8	" " "	54	July/65	300°	-45°	8	605	mg	
9	" " "	58	"	090°	-60°	6	395		
10	Conwest Exploration Co.	1	June/64	120°	-60°	45	506	po, cpy	
11	" " "	2	"	120°	-60°	51	501	po, cpy	
						(metres)	(metres)		
12	Kadrey Energy Corp.	KD-83-01	Sept./83	010°	-45°	6.7	184.4	py, tour, ba, g.mi	Ba
13 a	" " "	KD-83-02	"	354°	-45°	1.5	153.9	py, tour, ba g.mi	Ba
13 b	" " "	KD-83-03	"	354°	-60°	2.1	160.3	py, tour, ba, g.mi	Ba

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (metres)	Total Length of Hole (metres)	Mineralization Noted in Log	Assay Data Included for
14 a	Kadrey Energy Corp.	KD-83-04	Sept./83	010°	-45°	3.4	182.3	py, tour, ba g.mi	Ba
14 b	" " "	KD-83-05	"	190°	-45°	1.5	35.4	py, tour, ba g.mi	Ba
15	" " "	KD-83-06	"	020°	-45°	0.6	152.7	py, tour, ba, g.mi	Ba
16	" " "	KD-83-07	"	016°	-66°	15.9	154.2	py, tour, ba g.mi	Ba
						(feet)	(feet)		
17	Kinasco Mining & Explor.	1	Jan./56	315°	-34°	15	1121	S	Cu
18	" " " "	2	Feb./56	000°	-90°	71	511	po, S	
19	" " " "	3	"	000°	-90°	50	631	po, cpy	
20	" " " "	4	"	000°	-90°	39	598	S	
21	" " " "	5	Mar./56	100°	-45°	10	1049	po, mag, cpy	
22	" " " "	6	Apr./56	090°	-45°	10	532	S	
23	" " " "	7	"	270°	-45°	39	421	S	
24	" " " "	8	"	090°	-45°	42	481	py, po, cpy	
25	" " " "	9	May/56	315°	-45°	15	506	po, cpy	

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (metres)	Total Length of Hole (metres)	Mineralization Noted in Log	Assay Data Included for
26 a	Lytton Minerals Limited	P84- 1	1984	180°	-45°	9.8	230.0	py, tour, cpy, mo	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
26 b	" " "	P84- 2	"	180°	-45°	3.7	151.2	py, tour	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
27 a	" " "	P84- 3	"	180°	-45°	7.2	133.2	py, tour	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
27 b	" " "	P84- 4	"	180°	-45°	19.5	124.1	py, mo	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
28 a	" " "	P84- 5	"	180°	-45°	1.2	134.9	py, tour, mo	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
28 b	" " "	P84- 6	"	180°	-45°	4.0	147.5	py, tour	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
28 c	" " "	P84- 7	"	180°	-45°	3.0	139.3	py, mo	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
29 a	" " "	P84- 8	"	180°	-45°	6.4	148.4	py, mo	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (metres)	Total Length of Hole (metres)	Mineralization Noted in Log	Assay Data Included for
29 b	Lytton Minerals Limited	P84- 9	1984	180°	-45°	3.4	121	py, mo, tour, cpy, sphal	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
30	" " "	P84-10	"	180°	-45°	2.1	139.3	py	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
31	" " "	P84-11	"	180°	-65°	4.6	261.8	py, tour	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
32	" " "	P84-12	"	180°	-45°	26.5	364.9	py, tour, mo	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
33 a	" " "	P84-13	"	000°	-45°	21.1	242.9	py, tour, mo	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
33 b	" " "	P84-14	"	180°	-45°	11.7	119.8	py, mo	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
33 c	" " "	P84-15	"	180°	-45°	18.6	197.2	py, mo, tour	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
34	" " "	P84-16	"	180°	-45°	1.7	337.4	py, tour, cpy, mo, fluor	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
35 a	" " "	P84-17	"	180°	-45°	28.7	222.2	py, tour, cpy, mo, sphal	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (metres)	Total Length of Hole (metres)	Mineralization Noted in Log	Assay Data Included for
35 b	Lytton Minerals Limited	P84-18	1984	180°	-45°	2.3	111.9		Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
36	" " "	P84-19	"	180°	-45°	19.0	136.2	py, tour, mo, cpy, ga, sphal	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
37	" " "	P84-20	"	180°	-45°	22.3	306.6	py, tour, cpy, g.mi	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
38	" " "	P84-21	"	180°	-45°	27.4	154.5	py, mo, cpy, tour	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
39 a	" " "	P84-22	"	180°	-45°	25.8	133.2	py, cpy, mo, tour	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
b	" " "	P84-23	"	180°	-45°	29.9	108.8	py, mo	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
40	" " "	P84-24	"	180°	-45°	18.9	151.5	py, tour, mo, cpy	Au, Mo, Ag, Ba, Na, Cu, Pb, Zn, K
						(feet)	(feet)		
41	Mentor Exploration	1	May/56	270°	-45°	15	540	S	
42	" "	2	June/56	270°	-45°	15	497		

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
43 a	Norgold Mines Limited	1	Feb./56	000°	-90°	9	800	po, cpy, mag	
43 b	" " "	2	Mar./56	090°	-45°	5	307	po, cpy, mag	
43 c	" " "	3	"	270°	-45°	6	308	po, cpy, mag	
43 d	" " "	4	"	180°	-45°	5	291	po, cpy, mag	
43 e	" " "	5	"	000°	-45°	10	312	po, cpy, mag	
44 a	" " "	6	Apr./56	090°	-45°	7	525	po, cpy, mag	
44 b	" " "	7	"	270°	-45°	7	361	po, cpy, mag	
45	" " "	8	"	090°	-45°	4	251	po, cpy, mag	
46	" " "	9	May/56	090°	-45°	4	476	po, cpy, mag	
47	" " "	10	"	260°	-45°	8	421	po, cpy, mag	
48	" " "	11	"	210°	-45°	7	353	po, cpy, mag	
49	" " "	12	"	220°	-45°	71	409	po, cpy, mag	
50	Rejean Smith	1	Oct./83	-	-90°	-	260°	py	
51 a	Victor Stenlund	6	1982/83	-	-90°	-	145	py	
51 b	" "	7	"	-	-90°	-	365	py	
51 c	" "	8	"	-	-90°	-	480	py	
52 a	Wilkinson, Donald	1-78	May/78	225	-	-	109		
52 b	" "	2-78	May/78	270	-	-	20		

GDIF FORM NO. 3

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden (feet)	Total Length of Hole (feet)	Mineralization Noted in Log	Assay Data Included for
53	Zulapa Mining Corporation	1	Apr./56	325°	-80°	239	688	py	
54	" " "	2	May/56	025°	-80°	168	542	py	
55	" " "	3	June/56	090°	-60°	160	460	py	

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
5	Aerodat Limited Esso Resources Canada Limited	Magnetic, VLF-E.M.	60 metres	North/South	100 metres
6	Aerodat Limited Glitter Gold Mines Limited	Electromagnetic, magnetic, VLF-E.M.	60 metres	North/South	100 metres
12	Aerodat Limited Shoila Resources Limited	Electromagnetic, magnetic, VLF-E.M.	60 metres	North/South	100 metres
18	Aerodat Limited Esso Minerals Canada	Magnetic, VLF-E.M.	60 metres	North/South	100 metres
23	Aerodat Limited Recovery Resources Limited	Electromagnetic, magnetic, VLF-E.M.	60 metres	North/South	100 metres
27	Aerodat Limited Grant Explorations Limited	Electromagnetic, magnetic, VLF-E.M.	60 metres	North/South	100 metres
28	Aerodat Limited Cal Dynamics Energy Corporation	Electromagnetic, magnetic, VLF-E.M.	60 metres	North/South	100 metres
29	Aerodat Limited Pacific Rim Energy Corporation	Electromagnetic, magnetic, VLF-E.M.	60 metres	North/South	100 metres
34	Aerodat Limited Tanglewood Consolidated Resources	Electromagnetic, magnetic, VLF-E.M.	60 metres	North/South	100 metres
35	Aerodat Limited Tara Hills Gold Resources Inc.	Electromagnetic, magnetic, VLF-E.M.	60 metres	North/South	100 metres

GDIF FORM NO. 4

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
39	Aerodat Limited Shiningtree Gold Resources	Electromagnetic, magnetic, VLF-E.M.	60 metres	North/South	100 metres

GDIF FORM NO. 4

PIC TOWNSHIP AREA (WESTERN PART)

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference
1	Soil Geochemistry (B Horizon)	Au, Ag, Mo, As, Cu, Zn	OreQuest Consultants (Glitter Gold Mines Ltd.)	Resident Geologist's Assessment Files, Thunder Bay
2	Soil Geochemistry (C Horizon)	Total heavy metals	Great Basin Metal Mines	Resident Geologist's Assessment Files, Thunder Bay
3	Rock Geochemistry of Representative Samples	Whole rock and trace element	Lytton Minerals	Resident Geologist's Assessment Files, Thunder Bay
4	Soil Geochemistry (B Horizon)	Au, Ag, Cu, Mo, Zn, As	OreQuest Consultants (Empire Resources)	Resident Geologist's Assessment Files, Thunder Bay
5	Soil Geochemistry (B Horizon)	Au, Mo	OreQuest Consultants (Wildcat Petroleum)	Resident Geologist's Assessment Files, Thunder Bay
6	Soil Geochemistry (B Horizon)	Au, Ag, As, Mo, Cu, Zn	OreQuest Consultants (Cal Dynamics Energy Corporation)	Resident Geologist's Assessment Files, Thunder Bay
7	Soil Geochemistry (B Horizon)	Au, Mo	OreQuest Consultants (MacKenzie Energy Corp.)	Resident Geologist's Assessment Files, Thunder Bay
8	Soil Geochemistry (B Horizon)	Au, Ag, As, Mo, Cu, Zn	OreQuest Consultants (Grant Explorations)	Resident Geologist's Assessment Files, Thunder Bay

GDIF FORM NO. 5

Map Sample Site Reference Number	GEOCHEMICAL SURVEY DATA		By	Reference
	Type of Survey	Analysis For		
9	Soil Geochemistry (B Horizon)	Au, Ag, As, Mo, Cu, Zn	OreQuest Consultants (Kadrey Energy Corp.)	Resident Geologist's Assessment Files, Thunder Bay

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office. Thunder Bay

Anaconda American Brass

Conwest Exploration Company

Golden Range Resources

Grant Exploration Limited

Kadrey Energy Corporation

Lytton Minerals Limited

MacKenzie Energy Corporation

Mentor Exploration

Newmont Exploration

Norgold Mines Limited

Shiningtree Gold Resources

Tanglewood Consolidated Resources

Teck Corporation

ODM GENERAL INDEX SEARCH

Words searched: Anaconda Prospect, Black River, Heron Bay Area, Kinasco Exploration and Mining Limited, Lecours, J., Lecours Township, Melgund, Pic River, Pic Township

Index Volume	Listing	Report Volume	Part	Page
1	Melgund, Pic Township			
	Keewatin rocks near,	11	1	231
	Pic River, Lake Superior, Thunder Bay District			
	Gold mining	R.C.		115
	Maps, sketch	17		129
	Rocks in and near	8		131, 133, 167
	Gneiss, photo	18	1	151
	Huronian	4		124
	Petrography	7		148
	Sandstone	9		161
	Siliceous	9		183
	Syenite	14	1	198, 212, 230
	Silver near	R.C.		29
	Pic Township, Thunder Bay District			
	Huronian rocks	8		167
2	Black River, Heron Bay, Lake Superior			
	Molybdenite	22		289
3	Black River, Pic River			
	Rocks	40	2	30
		41	6	40
	Heron Bay Area, Thunder Bay District			
	Report, J. E. Thomson	40	2	21-39
	Pic Township, Thunder Bay District			
	Rocks	40	2	28, 32
6	Black River, Pic River			
	Mining claims	66	8	88
7	Kinasco Exploration and Mining Limited			
	Mining property, Pic Township			
	Report on	MRC 2		53
8	Anaconda Prospect			
	Township 76, Thunder Bay District			
	Mining property, report on	MRC 12		303

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page
8	Black River Area, Thunder Bay District			
	Cu/Ni/Pb/Zn	GR072		56-63
	Geology of the area			
	Report & maps 2143 thru 2147			
	by V. G. Milne, 1968	GR072		
	Pic Township, Thunder Bay District			
	Copper	GR043		44
		MRC012		298-299
	Feldspar	MP016		52-54
	Uranium	MRC009		87

GDIF FORM NO. 8

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Ayres, L. D., Lumbers, S. B., Milne, V. G., Robeson, D. W.	1971	Ontario Geological Map, West Central Sheet.	ODMNA, Map 2199	1 inch to 16 miles
Milne, V. G., et al.	1972	Manitouwadge - Wawa Sheet, Algoma, Cochrane, Sudbury and Thunder Bay Districts, Ontario. Geological Compilation Series. Associated map P-541.	ODM Map 2220	1 inch to 4 miles
		GEOLOGICAL MAPS AND REPORTS		
Bell, R.	1872	Report on the Country North of Lake Superior, between the Nipigon and Michipicoten Rivers, Ontario.	GSC, Report of Progress 1870-1871, Pt. VIII	
Card, K. D.	1981	Compilation of Bedrock Geology of Central Superior and Southern Provinces, Ontario.	GSC - OFR 729	1:250 000
Colvine, A. C. (Ed.)		The Geology of Gold in Ontario.	OGS, MP 110	pp. 226-240
GSC	1935	Lake Nipigon Sheet, Ontario.	GSC, Map 308A	1 inch to 8 miles
Logan, W. E.	1847	Remarks on the Mining Region of Lake Superior: addressed to the Committee of the Honorable Executive Council, and the Report on Mining Locations Claimed on the Canadian Shores of the Lake, addressed to the Commissioner of Crown Lands.	GSC, Separate Report 391	
Muir, T. L.	1982	Geology of the Hemlo Area, District of Thunder Bay, Ontario. Accompanied by map 2452. Associated maps P-2304, P-2305.	OGS, Report 217	p. 65 1:31 680

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Patterson, G. C., et al.	1983	Report of Activities 1983, Regional and Resident Geologists.	OGS, MP 117	pp. 69-79
Patterson, G. C.	1984	Field Trip Guidebook to the Hemlo Area.	OGS, MP 118	
Thomson, J. E.	1931	Geology of the Heron Bay Area, District of Thunder Bay, Ontario. Accompanied by map 40D.	ODM Annual Report, Vol. 40, Pt. 2	pp. 21-39
Thomson, J. E.	1933	Geology of the Heron Bay - White Lake Area, Thunder Bay District, Ontario. Accompanied by map 41J.	ODM Annual Report 1932, Vol. 41, Pt. 6	pp. 34-47 1 inch to 2 miles
Wilson, W. J.	1904	The Nagagami River and other Branches of the Kenogami, Ontario. Accompanied by map 847.	GSC Annual Report 15, Pt. A	
Wilson, W. J.	1909	Geological Reconnaissance of a Portion of Algoma and Thunder Bay Districts, Ontario. Accompanied by map 964.	GSC Separate Report 980	
Muir, T. L.	1982	Geology of the Heron Bay Area, District of Thunder Bay, Ontario. Accompanied by map 2439. Associated maps P-1981, P-1982.	OGS Reprot 218	p. 89 1:31 680
		GEOPHYSICAL MAPS AND REPORTS		
GSC - OGS	1963	Aeromagnetic Series Map, Heron Bay, Ontario.	Map 2156G	1 inch to 1 mile
GSC - OGS	1963	Aeromagnetic Series Map, Schreiber, Ontario.	Map 7088G	1 inch to 4 miles

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		GEOCHEMICAL MAPS AND REPORTS		
GSC	1981	National Geochemical Reconnaissance coloured Compilation Map Series; Lake Superior, Ontario.	GSC - OFR 746	1:200 000
GSC - OGS	1978	Field Operations and Analytical and Statistical Data of Regional Lake Sediment and Water Geochemistry Schreiber and part of Longlac, NTS 42 D, 42 E, Thunder Bay District. Accompanied by maps P-1805 to P-1818.	OGS - OFR 5248	1:250 000
		MINERAL POTENTIAL MAPS		
Springer, J. S.	1978	Ontario Mineral Potential, Schreiber Sheet, NTS 42 D, Thunder Bay District, Ontario.	OGS Map P-1520	1:250 000
Springer, J. S., et al.	1982	Mineral Potential Map of Ontario, West Central Sheet.	OGS - OFR 5326	1 inch to 16 miles
		SURFICIAL, PLEISTOCENE AND TERRAIN ENGINEERING		
Gartner, J. F.	1980	Northern Ontario Engineering Geology Terrain Study, Heron Bay, NTS 42 D/NE. Accompanied by map 5093.	OGS NOEGTS 60	1:100 000
Zoltai, S. C.	1966	Surficial Geology, Thunder Bay, Ontario.	Ontario Dept. of Lands and Forests Map S2-65	1 inch to 8 miles

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages

GDIF FORM NO.9

86° 30'

48° 45'

Beatty Cove

Corden Cove

Neuve Chapelle Pt

Ypres Pt

Ypsr Pt

Blondin Id

Peninsula

Manitoba Shoal

Harbour

Skin Id

Hawkins Id

Jellicoe Cove

AMERICAN CAN CO MILL

The Peninsula

Pen Lake

RADIO TOWERS

MARATHON

37

17

1

6

3

6

29,1

3

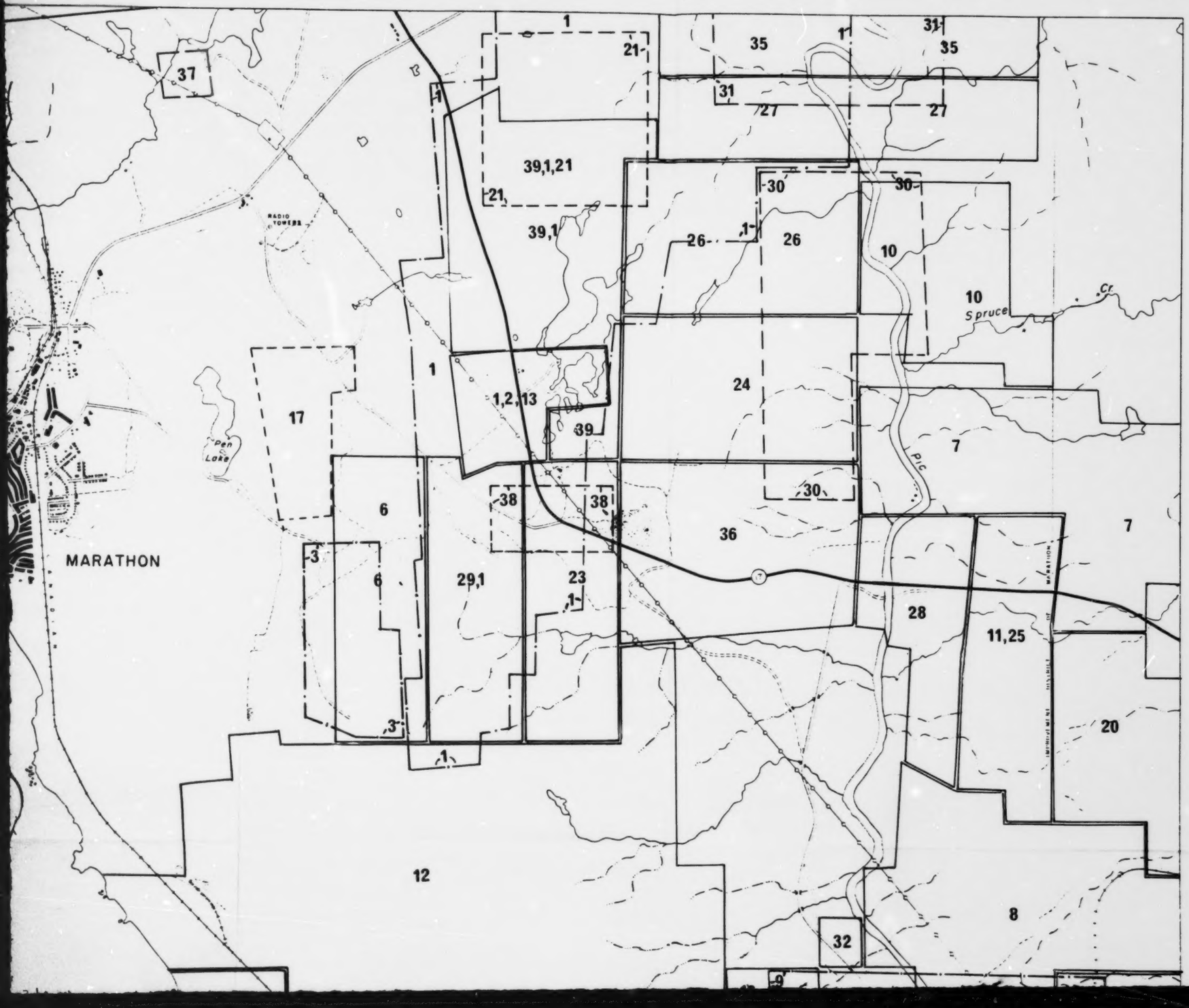
1

12

L A K E

86° 15'

48° 45'



Ministry of Natural Resources

Ontario

Hon. Michael Harris
Minister

Mary Mogford
Deputy Minister

Ministry of Northern Affairs

Hon. Leo Bernier
Minister

David Hobbs
Deputy Minister

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO 231

(Map 1 of 2)

PIC TOWNSHIP AREA
(WESTERN PART)

DISTRICT OF THUNDER BAY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

L A K E

S U P E R I O R

12

19

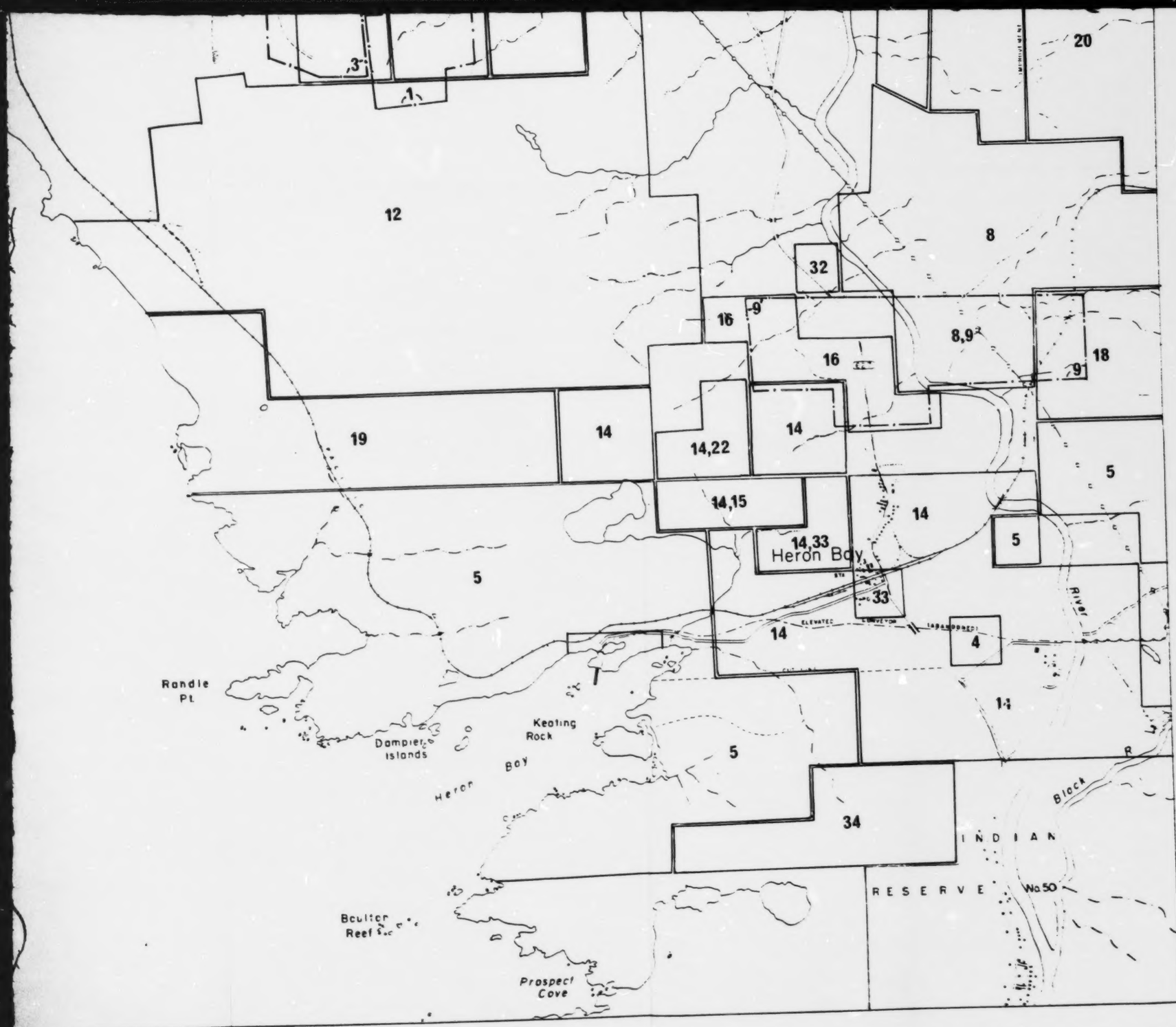
Rondle Pt

Dampier Islands

Boulter Reef

48° 37' 30"

86° 30'



EXPLORATION DATA FILE AREAS

⊠ ① ⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area of exploration

86° 30'

48° 45'

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☒ ◆³ — Geochemical sample site, with reference number
- ☐ ◆³ — Area of geochemical sampling, with reference number
- ☐ ✳² — Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ☒ AM — Airborne Magnetometer Anomaly
- ☐ — Airborne Electromagnetometer Anomaly Length of anomaly along flight line
- ☐ — Airborne Electromagnetometer Anomaly. Location of anomaly along flight line
- ☐ — Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible
- ☐ ARA — Airborne Radiometric Anomaly
- ☒ M — Ground Magnetometer Anomaly
- ☒ VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)
- ☐ RA — Ground Radiometric Anomaly
- ☒ IP — Induced Polarization Anomaly
- ☐ SP — Self Potential Anomaly
- ☐ AFMAG — Audio-frequency magnetometer anomaly (total intensity)

Beatty Cove

Carden Cove

Ypres Pt

Yser Pt

Blondin Id.

Peninsula

Manitoba Shoal

Harbour

Skin Id

Hawkins Id.

Jellicoe Cove

AMERICAN CAN CO MILL

The Peninsula

MARA

L A K E

Beatty Cove

Carden Cove

Nouvo Chapelle

Ypres Pt

Yser Pt.

Blondin Id.

Peninsula

Manitoba Shoal

Harbour

Skin Id.

Hawkins Id.

Jellicoe Cove

AMERICAN CAN CO MILL

OIL & GAS

The Peninsula

MARATHON

Pen Lake

RADIO TOWERS

Cu, Ni, Mo

Spruce

Cr.

P.I.C.

IP

AEM

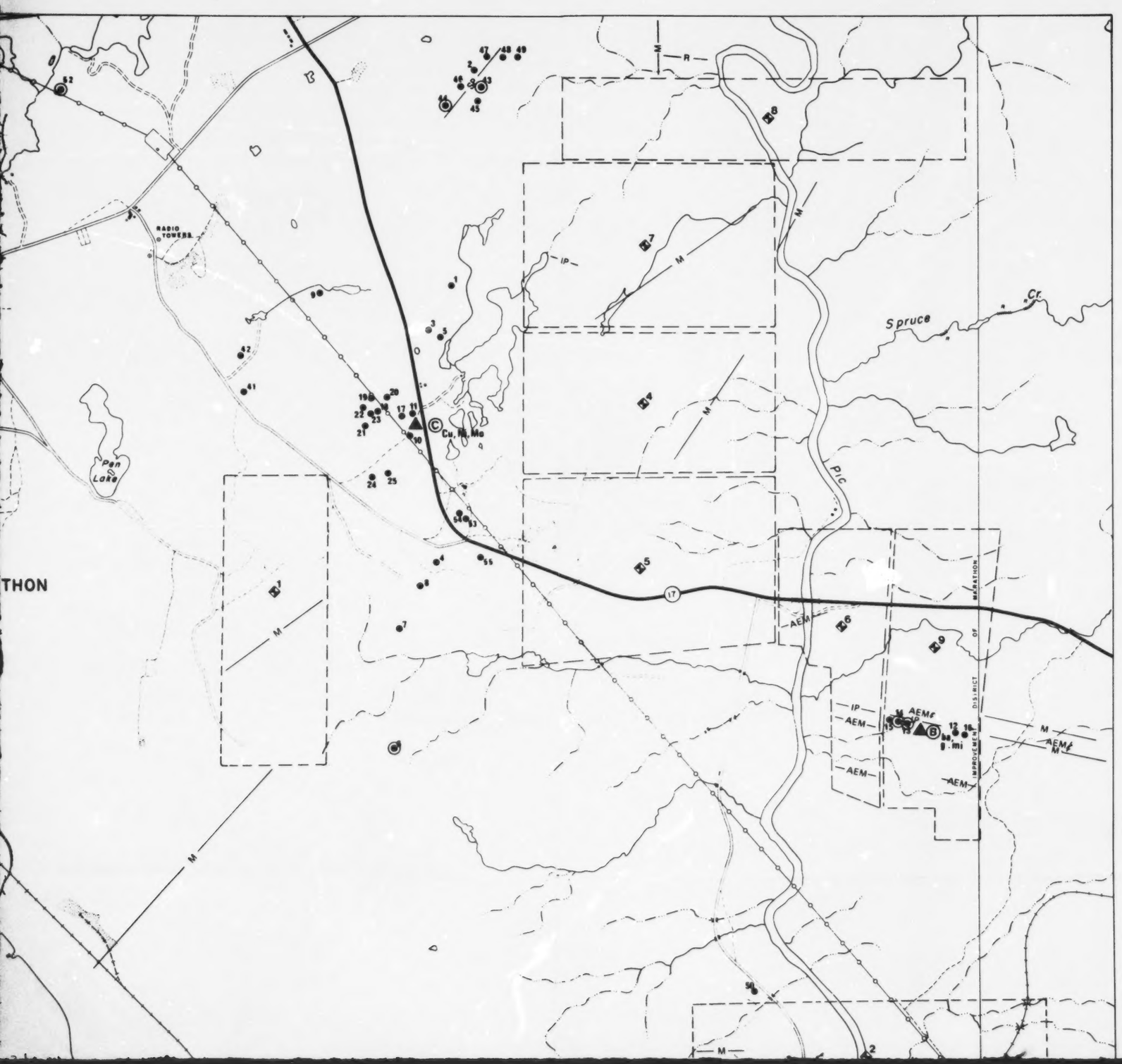
M

DISTRICT OF MARATHON IMPROVEMENT

A K E

86° 15'

48° 45'



Ontario

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Deputy Minister

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 231

(Map **2** of **2**)

PIC TOWNSHIP AREA
(WESTERN PART)

DISTRICT OF THUNDER BAY

Scale 1:31 680

Mile 0.5 0 0.5 1 Mile

Kilometre 0.5 0 0.5 1 Kilometre

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

Cp A. — Mineral occurrence at surface, with reference letter

Au A. 24' — Mineral occurrence with shaft, depth given with reference letter

☐ AFMAG — Audio-frequency magnetometer anomaly (total intensity)

☐ Airborne Electromagnetometer Anomaly. Location of anomaly along flight line

☐ Airborne Electromagnetometer Anomaly Conductor Axis: definite, probable, possible

☐ ARA — Airborne Radiometric Anomaly

☒ M — Ground Magnetometer Anomaly

☒ VL — Ground Electromagnetometer Anomaly (VL - Vertical Loop; HL - Horizontal Loop; VLF - Very low freq; Turam; JEM - Crone EM - 16)

☐ RA — Ground Radiometric Anomaly

☒ IP — Induced Polarization Anomaly

☐ SP — Self Potential Anomaly

☐ AFMAG — Audio-frequency magnetometer anomaly (total intensity)

☒ R — Resistivity Anomaly

☐ GR — Gravity Anomaly

☒ AEM — Airborne Electromagnetic Anomaly

MISCELLANEOUS DATA

☒ Trenching, pit

☐ Adit

☐ Open pit

☒ Rock quarry

☐ Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.

L A K E

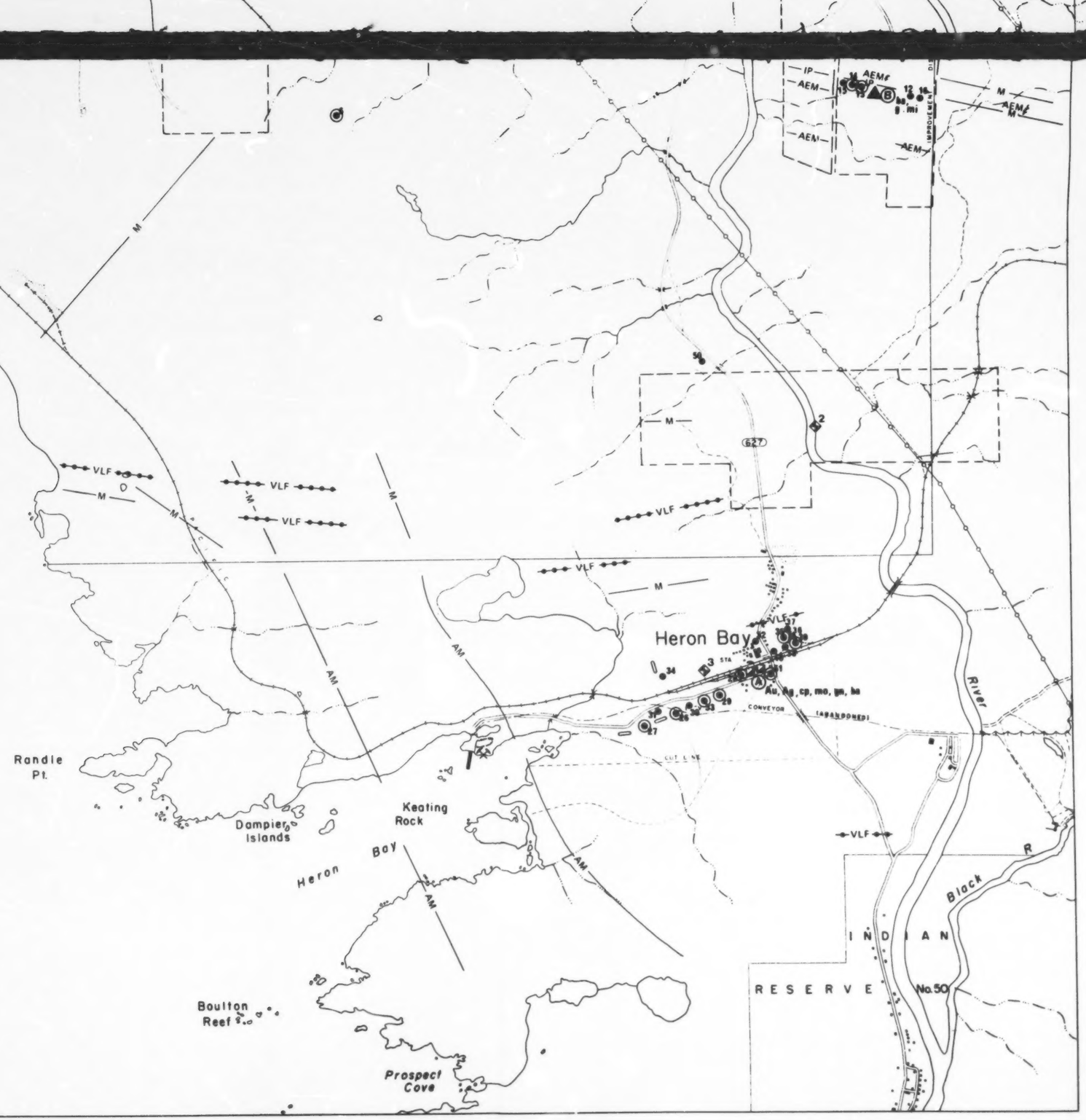
S U P E R I O R

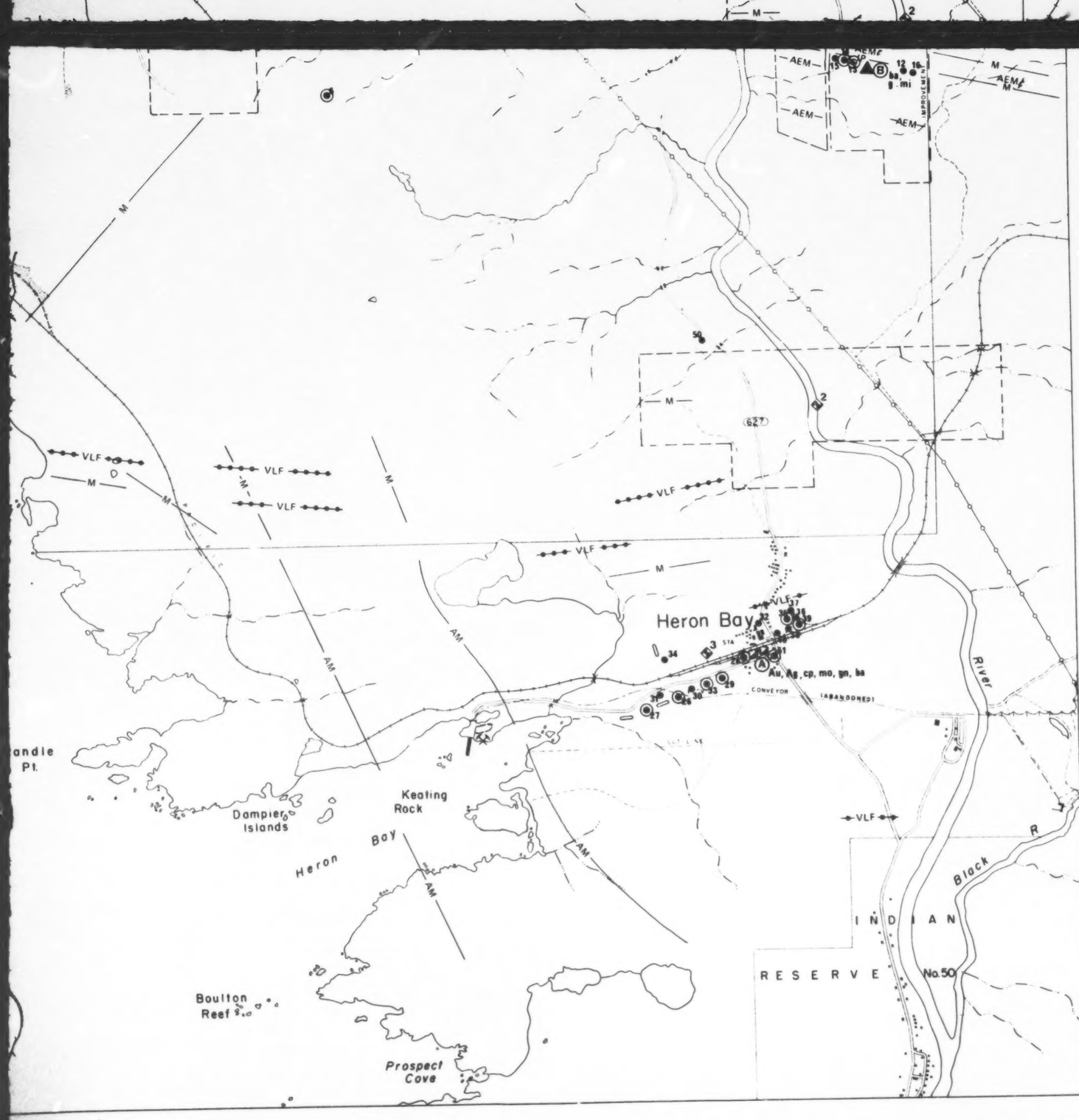
48° 37' 30"

86° 30'

K E

E R I O R


Heron Bay
Randle Pt.
Dampier Islands
Keating Rock
Heron Bay
Boulton Reef
Prospect Cove
Black River
INDIAN RESERVE No.50
CONVEYOR (ABANDONED)
VLF
AM
M
AEM
IP
Au, Ag, cp, mo, pn, ba
627
48° 37' 30"
86° 15'



GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84' — Mineral occurrence with shaft, depth given with reference letter
- Ag ? A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized Float with reference letter

DRILL HOLES

- ●² — Location of single drill hole, with reference number
- ◉² — Location of closely spaced group of drill holes, with reference number
- (?)² — Drill hole, exact location uncertain, with reference number.
- ◎ — Property with underground drill holes in this general area, with reference number
- ○² — Property with drill holes which have not been plotted on map, with reference number
- ⊕² — Reverse Circulation Drill Hole; Churn drilling, with reference number